

ABSTRACT

A system for tracking the motion of an object relative to a moving reference frame includes a first inertial sensor mounted on the tracked object; a second inertial sensor mounted on the moving reference frame; a third inertial sensor mounted on the moving
5 reference frame and spaced apart from the second inertial sensor; and an element coupled to said first and second and third inertial sensors and configured to determine a position of the object relative to the moving reference frame based on the signals from the first and second and third inertial sensor.

20788793.doc